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NATHAN BANKS

A BIOGRAPHIC SKETCH AND LIST OF PUBLICATIONS

Nathan Banks was born at Roslyn, New York, on April 13, 1868. After attending the Roslyn schools, he went to Cornell University, from which he received the Bachelor of Science degree in 1889. His early interest in natural history, which was apparent even in boyhood, developed during his college days into an enthusiasm for entomology that never diminished. Graduate studies at Cornell, under the supervision of Professor J. H. Comstock, led to the Master of Science degree in 1890. Later in that year he was appointed to a position in the Bureau of Entomology of the United States Department of Agriculture in Washington, where for twenty-six years he did research on the taxonomy of insects and arachnids.

As the years passed, however, Banks became dissatisfied with the Washington position. One of his concerns was the safe housing and maintenance of his private collection of insects, which, as a result of exchanges with numerous entomologists in many countries, had attained extraordinary size and significance. In 1904 he wrote to Samuel Henshaw, the newly appointed director of the Museum of Comparative Zoology, inquiring about the possibility of a position there. Henshaw was unable to arrange for an appointment at that time, although he gave Banks definite encouragement for the future.

Nearly ten years later, 1913, the appointment became something more than a hope. Towards the end of that year Banks wrote Henshaw: "When I get to the Museum I shall not expect to publish much for several years, as I

expect the curatorial work and sorting and identification of material will take up all my time." This kind of work did in fact take up much of his time for most of his working life, although it did not stop his publishing on his research. It was partly his willingness to do such work that enabled him to build up a magnificent insect collection at the Museum of Comparative Zoology. The appointment was, however, delayed nearly three years longer, and in the interval Banks was offered a position by another museum in this country, specifically the curatorship of Thysanura, Arachnida and Neuroptera. He refused this offer, however, pointing out that "he rather fancied himself an entomologist", not just a specialist in a few orders. By early 1916 definite provisions for the appointment at the Museum of Comparative Zoology were made by its governing board. Banks shipped his collection and library to the Museum during early fall and finally moved to Cambridge in November.

Banks' collection, which was donated to the Museum on his arrival, constituted one of the largest and most valuable entomological collections ever received by the Museum. It included more than 120,000 specimens, of which 1,800 were types. His library, also given to the Museum, contained about a thousand pamphlets and books not in the Museum library.

The Annual Report of the Museum for 1916-17 contained the following reference to the new curator: "The permanent staff of the Museum has been strengthened by the appointment of Mr. Nathan Banks as Curator of Insects. During the early years (1863-1867) of the Museum, the entomological collections were in charge of three Assistants, Samuel H. Scudder, Alpheus S. Packard, Jr., and Phillip R. Uhler, later three eminent entomologists. In October, 1867, Dr. H. A. Hagen took charge of the collections, and during his term of service which lasted until his death, they were placed in the front rank of University collections. During the fifty years since Dr. Hagen's appointment, the study of insects has become more and more specialized, and the Museum is fortunate in its appointment of an entomologist whose training and interests in-

sure a broad and equitable consideration of the work of his department."

In 1928, as part of an initial step in the integration of the Department of Biology and the research staff of the Museum, Banks was appointed Associate Professor of Zoology. Although he gave no formal lecture course in the University, his informal instruction through research courses was invaluable to advanced students and became of even greater significance a few years later, when graduate instruction in entomology was transferred from the Bussey Institution at Forest Hills to the Biological Laboratories at Cambridge. In 1941, when additional curators were appointed in entomology at the Museum, Banks was designated Head Curator of Insects, a title which he held until his retirement in 1945, at the age of 76.

Banks remained active for a few years after his retirement, working chiefly on the preparation of a catalogue of literature on the habits of insects, but his strength gradually failed him. He died at his home in Holliston, Massachusetts, on January 24, 1953, at the age of 84. He is survived by his wife (née Mary A. Lu Gar) and eight children.

The contributions made by Banks through his publications are truly impressive. His bibliography, given below, includes 440 technical papers, on many aspects of entomology. The majority of his early publications, from 1890 to 1900, were on arachnids, but most of his later ones dealt with the insect orders Trichoptera, Mecoptera, Neuroptera, Perlaria and Psocoptera, on all of which he was a world authority.

Banks was a good collector, but he was too occupied with the Museum duties to make extensive trips. In 1906 he collected in the vicinity of the Black Mts., in North Carolina; in 1924 he made his longest field trip — to Barro Colorado Island, in the Canal Zone; in 1931 he made a collecting trip to the Smoky Mts., accompanied by his son Gilbert, and P. J. Darlington, Jr., and F. M. Carpenter. He also made extensive collections in the vicinity of his home; the collections at the Museum contain many thousands of specimens from Sea Cliff, New York; Falls

Church, Virginia; and Lexington and Holliston, Massachusetts — these being the successive locations of his home.

Banks' greatest contribution to entomology was through his service and devotion as curator of the entomological collections. Having virtually no assistance at the Museum, he did the routine curatorial work on the collection, compiled catalogues of types and genera, and prepared specimens for shipment to investigators in other institutions. The continued high rank of Harvard's entomological collection is chiefly the result of his efforts. The collection itself is indeed a memorial to the devotion which he had for entomology.

He had a great capacity for work, a single-mindedness of purpose, and a good memory. It is a misfortune that his knowledge of the structural diversity and adaptations of insects was not more available to biologists. This was partly his fault. He had not learned the modern vocabularies of genetics and evolution. Moreover, Banks, feeling that he was too busy, did not join the smoking and conversation group on the Museum steps in mid-morning and mid-afternoon, further restricting the circulation of his knowledge. Nevertheless he liked people and liked to talk, and was kind, helpful, and had a sense of humor.

The following list of Nathan Banks' publications is as nearly complete as we can make it. Since he kept no record of his own papers, we have had to compile this list from many sources. We are indebted to Miss Jolane P. Baumgarten and Miss Ruth Dunn for assistance in the preparation of the bibliography. A few additional publications by Mr. Banks will undoubtedly come to light; we would appreciate being informed of them, so that we may include them in a subsequent list.

F. M. Carpenter

P. J. Darlington, Jr.

PUBLICATIONS OF NATHAN BANKS

1890

- A new pseudoscorpion. Canadian Ent., 22:152.
On *Thalamia parietalis* Hentz. Proc. Ent. Soc. Washington, 2:125-128.

1891

- Notes on North American Chernetidae. Canadian Ent., 23:161-166.
Notes on the Dysderidae of the United States. Canadian Ent., 23:207-209.
Notes on some spiders described by Hentz. Ent. News, 2:84-87.
Synonymical notes on spiders. Ent. News, 2:193.
Mimicry in spiders. Proc. Ent. Soc. Washington, 2:174-176.
A new genus of Phalangiidae. Proc. Ent. Soc. Washington, 2:249-250.
On *Prodidomus rufus* Hentz. Proc. Ent. Soc. Washington, 2:259-261, 1 fig.

1892

- A classification of the North American spiders. Canadian Ent., 24:88-97.
Our Atypidae and Theraphosidae. Ent. News, 3:147-150.
The spider fauna of the Upper Lake, Cayuga Basin. Proc. Acad. Nat. Sci. Philadelphia, pt. 1:11-81, pls. 1-5.
A synopsis, catalogue, and bibliography of the neuropteroid insects of temperate North America. Trans. American Ent. Soc., 19:327-373.

1893

- Notes on the mouth parts and thorax of insects and chilopods. American Nat., 27:400-401.
Review of: Histoire Naturelle des Araignées: deuxième édition, par Eugène Simon. Canadian Ent., 25:27-28.
New Chernetidae from the United States. Canadian Ent., 25:64-67.
The Phalanginae of the United States. Canadian Ent., 25:205-211.

- A new species of *Oligolophus*. Canadian Ent., 25:252-253.
 The silk of spiders. Insect Life, 5:210.
 Notes on spiders. J. New York Ent. Soc., 1:123-134.
 Arachnida in the "Scientific results of the U.S. 'Eclipse' expedition to West Africa, 1889-'90." Proc. United States Mus., 16:586-587.
 A new American *Lacinius*. Psyche, 6:402-403.
 The Phalangida Mecostethi of the United States. Trans. American Ent. Soc., 20:149-152.

1894

- The Odonata of Ithaca, N.Y. Canadian Ent., 26:76-78.
 Concerning *Calotarsa ornatipes*, Townsend. Canadian Ent., 26:88.
 Washington Phalangidae, with descriptions of a new southern *Liobunum*. Canadian Ent., 26:160-164.
 Some Psychodidae from Long Island, N.Y. Canadian Ent., 26:329-333.
 Notes on *Larinia* and *Cercidia*. Ent. News, 5:8-9.
 On a collection of neuropteroid insects from Kansas. Ent. News, 5:178-180.
 On a classification of arthropods. Ent. News, 5:213-216.
 Two families of spiders new to the United States. Ent. News, 5:298-300.
 The Phalangidae of New York. J. New York Ent. Soc., 2:40-41.
 On the Lycosidae of Colorado. J. New York Ent. Soc., 2:49-52.
 Notes on Phalangidae. J. New York Ent. Soc., 2:145-146.
 Some new American Acarina. Trans. American Ent. Soc., 21:209-222.

1895

- The Arachnida of Colorado. Ann. New York Acad. Sci., 8:417-434.
 Some new Attidae. Canadian Ent., 27:96-102.
 Notes on *Psychoda*. Canadian Ent., 27:324.
 Comment on "Insect life", by Wm. H. Ashmead. Ent. News, 6:18-19.
 Chernetid attached to a fly. Ent. News, 6:115.
Aeschna pentacantha in New York. Ent. News, 6:124.

- Some Missouri spiders. Ent. News, 6:204-207.
- Notes on the Pseudoscorpionida. J. New York Ent. Soc., 3:1-13.
- Two California phalangids. J. New York Ent. Soc., 3:66.
- A list of spiders of Long Island, N. Y., with descriptions of new species. J. New York Ent. Soc., 3:76-93.
- Some acarians from Sphagnum swamp. J. New York Ent. Soc., 3:128-130.
- Some Mexican Neuroptera. Proc. California Acad. Sci., 5:515-522.
- The Nemastomatidae and Troglulidae of the United States. Part 1. Psyche, 7:11-12.
- The Nemastomatidae and Troglulidae of the United States. Part 2. Psyche, 7:51-52.
- The genus *Oxyptila*. Psyche, 7:241-244.
- On the Oribatoidea of the United States. Trans. American Ent. Soc., 22:1-16.
- New neuropteroid insects. Trans. American Ent. Soc., 22:313-316.

1896

- A few new spiders. Canadian Ent., 28:62-65.
- A new species of *Meleoma*. Ent. News, 7:95-96.
- New California spiders. J. New York Ent. Soc., 4:88-91.
- Additions to the list of Long Island spiders. J. New York Ent. Soc., 4:190-192.
- A new species of *Gomphus*. J. New York Ent. Soc., 6:193-195.
- Indiana caves and their fauna. Rep. Indiana Geol. Surv., 21:202-205.
- New North American spiders and mites. Trans. American Ent. Soc., 23:57-77.

1897

- Some notes on the flora and fauna of Mammoth Cave, Kentucky. American Nat., 31:377-392 (R. E. Call).
- Descriptions of new spiders. Canadian Ent., 29:193-197.
- A *Leucochrysa* from Florida. Ent. News, 7:183.
- Descriptions of two new smynthurids. J. New York Ent. Soc., 5:33-34.
- Some Syrphidae from Long Island. J. New York Ent. Soc., 5:40-41.

Three new species of Chrysopidae. Proc. Ent. Soc. Washington, 4:173-175.

New North American neuropteroid insects. Trans. American Ent. Soc., 24:21-31.

1898

Bibliography of the more important contributions to American economic entomology. The more important writings published between June 30, 1888, and December 30, 1896. United States Div. Ent., 273 pp.

"Araneae Hungariae", by C. Chyzer and L. Kulczynski. A Review. Canadian Ent., 30:168.

Some new spiders. Canadian Ent., 30:185-188.

Three myrmecophilous mites. Canadian Ent., 30:265-266.

Arachnida from the Malaspina Glacier, Alaska. Ent. News, 9:16.

Concerning the names of some common spiders. Ent. News, 9:141-142.

Some Mexican Phalangida. J. New York Ent. Soc., 6:181-182.

Arachnida from Baja California and other parts of Mexico. Proc. California Acad. Sci., 1:205-308. pls. 13-17.

Descriptions of new North American neuropteroid insects. Trans. American Ent. Soc., 25:199-218.

1899

Reports upon the insects, spiders, mites, and myriapods collected by Dr. L. Stejneger and Mr. G. E. H. Barrett-Hamilton on the Commander Islands. Report of the fur-seal investigations, 1896-1897, Pt. 4, Appendix C, p. 328, Edited by W. H. Ashmead.

A classification of the North American Myrmeleonidae. Canadian Ent., 31:67-71.

Spiders in bananas. Ent. News, 10:44-45.

New Myrmeleonidae. Ent. News, 10:170-172.

The psocids of an old snake-fence. Ent. News, 10:260-261.

The Smythuridae of Long Island, New York. J. New York Ent. Soc., 7:193-197.

Some spiders from northern Louisiana. Proc. Ent. Soc. Washington, 4:188-195.

A new species of the genus *Halarachne*. Proc. Ent. Soc. Washington, 4:212-215.

An American species of the genus *Caeculus*. Proc. Ent. Soc. Washington, 4:221-222.

Tarsonemus in America. Proc. Ent. Soc. Washington, 4:294-296.

A new solpugid from California. Proc. Ent. Soc. Washington, 4:314-315.

New genera and species of Nearctic neuropteroid insects. Trans. American Ent. Soc., 26:236-260.

1900

Synopses of North American invertebrates. IX. The scorpions, solpugids, and Pedipalpi. American Nat., 35:421-427.

The red spiders of the United States. (*Tetranychus* and *Stigmaeus*). Tech. Bull. United States Div. Ent., 8:65-77, 17 figs.

Cotton insects in Egypt. Bull. United States Div. Ent., 22:99-100.

A list of works on North American entomology. Bull. United States Div. Ent., 24:95 pp.

On two genera of mites. Canadian Ent., 32:30-33.

Some new North American spiders. Canadian Ent., 32:96-102.

A new genus of Atropidae. Ent. News, 11:431-432.

Two new species of *Troctes*. Ent. News, 11:559-560.

A new species of *Myrmeleon* from Texas. Ent. News, 11:596.

Psocids at Light. Ent. News, 11:601.

New genera and species of Phalangida. J. New York Ent. Soc., 8:199-201.

Papers from the Harriman Alaska expedition. Entomological results (4):Neuropteroid insects. Proc. Washington Acad. Sci., 2:465-476, pls. 27-28.

Papers from the Harriman Alaska expedition. Entomological results (5):Arachnida. Proc. Washington Acad. Sci., 2:477-486, pl. 29.

Camphor secreted by an animal. Science (n.s.), 12:649.

1901

Synopses of North American invertebrates. XVI. The Phalangida. *American Nat.*, 35:669-679, 6 figs.

Flies as carriers of disease. *American Nat.*, 35:406-407.

The eastern species of *Psychoda*. *Canadian Ent.*, 32:273-275.

A new genus of Myrmeleonidae. *Canadian Ent.*, 32:329-330.

A new ascalaphid from the United States. *Ent. News*, 12:172.

Notes on some spiders of Walkenaer, Koch and others. *J. New York Ent. Soc.*, 9:182-189.

Some Arachnida from New Mexico. *Proc. Acad. Nat. Sci. Philadelphia*, 53:568-597, pl. 33.

A new genus of endoparasitic acarians. *Geneesk Tijdschr. Nederl. Indie*, 61:334-336.

Some spiders and other Arachnida from southern Arizona. *Proc. United States Nat. Mus.*, 23:581-590, pl. 22.

Papers from the Hopkins Stanford Galapagos expedition, 1898-1899. Entomological results (5):Thysanura and Termitidae. *Proc. Washington Acad. Sci.*, 3:541-546.

Arachnida, Neuroptera. In "Some insects of the Hudsonian zone in New Mexico. I." (T. D. A. Cockerell). *Psyche*, 9:123-126.

Neuropteroid insects. In "Some insects of the Hudsonian zone in New Mexico. VI." *Psyche*, 9:286.

A list of neuropteroid insects from Mexico. *Trans. American Ent. Soc.*, 27:361-371, pl. 12.

Bibliography of the more important contributions to American economic entomology. Part 7. The more important writings published between December 31, 1896, and January 1, 1900. *United States Div. Ent.*, 113 pp.

1902

Principal insects liable to be distributed on nursery stock. *Bull. United States Div. Ent.*, 34:46 pp.

Notes and descriptions of Perlidae. *Canadian Ent.*, 34:123-125.

New genera and species of acarians. *Canadian Ent.*, 34:171-176, 4 figs.

"The common spiders of the United States", by J. H. Emerton. A review. Canadian Ent., 34:218.

A new species of *Brachynemurus*. Ent. News, 13:86.

Daddy-long-legs from Mt. Katahdin, Maine. Ent. News, 13:308-309.

A new phalangid from the Black Mountains, N. C. J. New York Ent. Soc., 10:142.

Sleeping habits of certain Hymenoptera. J. New York Ent. Soc., 10:209-214.

Some Arachnida from Alabama. Proc. Acad. Sci. Philadelphia, 52:529-543.

Some Arachnida from New Mexico. Proc. Acad. Sci. Philadelphia, 53:568-597, pl. 33.

Some spiders and other Arachnida from Porto Rico. Proc. United States Nat. Mus., 24:217-227, pl. 15.

A list of spiders collected in Arizona by Messrs. Schwarz and Barber during the summer of 1901. Proc. United States Nat. Mus., 25:211-221.

Papers from the Hopkins Stanford Galapagos expedition, 1898-1899. 7. Entomological results (6). Arachnida. With field notes by R. E. Snodgrass. Proc. Washington Acad. Sci., 4:49-86, pls. 1-3.

Description of a new cave spider, in "A contribution to the subterranean fauna of Texas" (C. J. Ulrich). Trans. American Micr. Soc., 23:85-101, (97-98).

Some spiders and mites from the Bermuda islands. Trans. Connecticut Acad. Sci., 11:267-275, 3 figs.

1903

Concerning *Gastrophilus epilepsalis*, French. Canadian Ent., 35:333.

A new genus of Solpugida. Ent. News, 14:78-79, 1 fig.

A new species of *Habrophlebia*. Ent. News, 14:235, 1 fig.

New name for *Dictyopteryx* Pictet. Ent. News, 14:241.

Additions to the list of New York Pentatomidae. J. New York Ent. Soc., 11:227.

Some new neuropteroid insects. J. New York Ent. Soc., 11:236-243.

Secondary sexual characters in spiders. Proc. Ent. Soc. Washington, 5:104-107.

New Smynthuridae from the District of Columbia. Proc. Ent. Soc. Washington, 5:154-155.

Notes on Brachynemuri of the *B. ferox* group. Proc. Ent. Soc. Washington, 5:173-177, pl. 3.

Neuropteroid insects from Arizona. Proc. Ent. Soc. Washington, 5:237-245.

Note on *Ceria willistonii* Kahl. Proc. Ent. Soc. Washington, 5:310.

A list of Arachnida from Hayti, with descriptions of new species. Proc. Acad. Sci. Philadelphia, 55:340-345, pl. 15.

An application of the law of priority. Science (n.s.), 17:115.

Notes on Entomology. Science (n.s.), 17:154-156.

Those manuscript names. Science (n.s.), 17:508.

Notes on Entomology. Science (n.s.), 17:982-983.

A revision of the Nearctic Chrysopidae. Trans. American Ent. Soc., 29:137-162, pl. 2.

1904

New species of *Hemerobius*. Canadian Ent., 36:61-62.

Two new species of Hydroptilidae. Ent. News, 15:116, 2 figs.

Two rare neuropteroid insects. Ent. News, 15:171.

Megachile sexdentata Robertson. Ent. News, 15:171-172.

The "yellow-fly" of the Dismal Swamp. Ent. News, 15:290-291.

Four new species of injurious mites. J. New York Ent. Soc., 12:53-54, pl. 11.

New genera and species of Nearctic spiders. J. New York Ent. Soc., 12:109-119, pls. 5-6.

The Arachnida of Florida. Proc. Acad. Sci. Philadelphia, 56:120-147, pls. 7-8.

Some Arachnida from California. Proc. California Acad. Sci., 3:331-374, pls. 38-41.

Two new species of caddice-flies. Proc. Ent. Soc. Washington, 6:140-142.

(Regeneration of legs). Proc. Ent. Soc. Washington, 6:147.

Notes on the structure of the thorax and maxillae in insects. Proc. Ent. Soc. Washington, 6:149-153, pl. 1.

A list of neuropteroid insects, exclusive of the Odonata,

from the vicinity of Washington, D. C. Proc. Ent. Soc. Washington, 6:201-217, pl. 2.

A treatise on the Acarina or mites. Proc. United States Nat. Mus., 28:1-114, 201.

Neuropteroid insects from New Mexico. Trans. American Ent. Soc., 30:97-110, pl. 1.

1905

Synopses of North American invertebrates. 20. Families and genera of Araneida. American Nat., 39:293-323, 23 figs.

Descriptions of new species of neuropterous insects from the Black Mountains, North Carolina. Bull. American Mus. Nat. Hist., 21:215-218.

A new genus and species of Phalangida. Ent. News, 16:251-253, 2 figs.

Mexican flies in the United States. Ent. News, 16:333.

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Arachnids from Cocos Island. Proc. Ent. Soc. Washington, 7:20-23, 3 figs.

An alleged parasite tyroglyphid. Proc. Ent. Soc. Washington, 7:40-42, 1 fig.

Descriptions of new American spiders. Proc. Ent. Soc. Washington, 7:94-101, 1 pl.

New Trichoptera from Japan. Proc. Ent. Soc. Washington, 7:106-113.

Descriptions of some new mites. Proc. Ent. Soc. Washington, 7:133-142, 1 fig.

New genera and species of Perlidae. Psyche, 12:55-57.

Descriptions of new Nearctic neuropteroid insects. Trans. American Ent. Soc., 32:1-20, 2 pls.

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1906

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A revision of the Tyroglyphidae of the United States. Tech. Ser. United States Div. Ent., 13:1-14, pls. 1-6.

On the perlid genus *Chloroperla*. Ent. News, 17:174-175.

A rock-boring mite. Ent. News, 17:193-194, 3 figs.

Two new termites. Ent. News, 17:336-337, 1 fig.

Notes on *Pteronarcys*, a genus of Perlidae. Proc. Ent. Soc. Washington, 8:8-9, 1 fig.

Annual address of the president: A plea for the genus. Proc. Ent. Soc. Washington, 8:37-45.

A revision of the Nearctic Coniopterygidae. Proc. Ent. Soc. Washington, 8:77-86, 2 pls.

Descriptions of new Trichoptera. Proc. Ent. Soc. Washington, 8:117-133, pls. 8-9.

The Psychodidae of the vicinity of Washington. Proc. Ent. Soc. Washington, 8:148-151.

New Oribatidae from the United States. Proc. Acad. Nat. Sci. Philadelphia, 58:490-500, pls. 14-18.

Three new species of Neuroptera. Psyche, 13:98-100.

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A revision of the Nearctic Hemerobiidae. Trans. American Ent. Soc., 32:21-51, pls. 3-5.

1907

A list of Perlidae of British Columbia and Alberta. Canadian Ent., 39:325-330, 4 figs.

Mites and lice on poultry. Cir. United States Div. Ent., 92:1-8.

A new mayfly of the genus *Caenis*. Ent. News, 18:13-14.

A new antlion-fly from Arizona. Ent. News, 18:100-101.

A new genus and a new species of Neuroptera. Ent. News, 18:275.

A new species of *Termes*. Ent. News, 18:392-393.

Rare Hemiptera in Virginia. Ent. News, 18:425.

Occurrence of *Dilar americana* McLach. Ent. News, 18:450.

Captures of Diptera. Ent. News, 18:450.

New Trichoptera and Psocidae. J. New York Ent. Soc., 15:162-166.

Annual address of the president: Some phases of protective resemblance in our spiders. Proc. Ent. Soc. Washington, 9:2-9.

New tropical American Neuroptera. Proc. Ent. Soc. Washington, 9:30-34.

Three new species of tropical Phalangida. Proc. Ent. Soc. Washington, 9:37-39.

A list of neuropteroid insects from North Carolina. Proc. Ent. Soc. Washington, 9:149-156.

A catalogue of the Acarina, or mites of the United States. Proc. United States Nat. Mus., 32:595-625.

A preliminary list of the Arachnida of Indiana, with keys to families and genera of spiders. Rep. Dept. Geol. Nat. Res. Indiana, 31st Ann. Rep. :715-747.

Catalogue of the neuropteroid insects (except Odonata) of the United States. Trans. American Ent. Soc., 33:53 pp.

1908

The pseudoscorpions of Texas. Bull. Wisconsin Nat. Hist. Soc., 6:39-42.

New species of Theridiidae. Canadian Ent., 40:205-208, 1 fig.

A new genus and species of Neuroptera. Ent. News, 19:203-214, 1 fig.

Sleeping habit of a bee. Ent. News, 19:340.

Tachopteryx (Odonata) in Virginia. Ent. News, 19:384.

Trigonalys and *Ropronia* in Virginia. Ent. News, 19:436.

Tick-borne diseases and their origin. J. Econ. Ent., 1:213-215.

Fauna of New England. 10. List of the Phalangida, Pseudoscorpionida, and Acarina. Occ. Pap. Boston Soc. Nat. Hist., 7:20 pp.

On the classification of the Corydalinae, with description of a new species. Proc. Ent. Soc. Washington, 10:27-30.

A new *Tetranychus*. Proc. Ent. Soc. Washington, 10:36.

Three new ticks from the United States. Proc. Ent. Soc. Washington, 10:170-173.

Some Trichoptera, and allied insects from Newfoundland. *Psyche*, 15:61-67, 1 pl.

A revision of the Ixodoidea, or ticks, of the United States. Tech. Ser. United States Div. Ent., No. 15:1-61, pls. 1-10.

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1909

Directions for collecting and preserving insects. Bull. United States Nat. Mus., No. 67:1-135, pl. 1.

The family name Lygaeidae. Canadian Ent., 41:418.

New Pseudoscorpionida. Canadian Ent., 41:303-307.

A new species of *Systropus* (Bombyliidae). Ent. News, 20:18.

Two new caddice flies. Ent. News, 20:342.

Ticks on the California ground squirrel. Ent. News, 20:376 (W. B. Werry, and F. C. Wellman, with description of a new species by N. Banks).

Dates of Guérin's Iconographie règne animali. Ent. News, 20:396-397.

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Arachnida from Costa Rica. Proc. Acad. Nat. Sci. Philadelphia, 61:194-234, pls. 5-6.

Hemerobiidae from Queensland, Australia. Proc. Ent. Soc. Washington, 11:76-81.

New Canadian mites. Proc. Ent. Soc. Washington, 11:133-143, pls. 10-12.

Notes on our species of Emesidae. *Psyche*, 16:43-48.

Arachnida of Cuba. Second Rep. Cent. Expt. Stat. Republic of Cuba, 45:150-174, 1 pl.

1910

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